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Search Results - Record(s) 1 through 4 of 4 returned.☐ 1. Document ID: US 20020152452 A1

L6: Entry 1 of 4

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020152452
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020152452 A1

TITLE: Illumination optimization for specific mask patterns

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|----------|-------|---------|---------|
| Socha, Robert John | Campbell | CA | US | |

US-CL-CURRENT: 716/21; 716/19, 716/20

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Draw Desc | Image | | | | | | | | |

KWC

☐ 2. Document ID: US 20010040722 A1

L6: Entry 2 of 4

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010040722
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010040722 A1

TITLE: BROAD BAND DEEP ULTRAVIOLET/VACUUM ULTRAVIOLET CATADIOPTRIC IMAGING SYSTEM

PUBLICATION-DATE: November 15, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|----------------------|-----------|-------|---------|---------|
| SHAFFER, DAVID R. | FAIRFIELD | CT | US | |
| CHUANG, YUNG-HO | CUPERTINO | CA | US | |
| ARMSTRONG, J. JOSEPH | MILIPITAS | CA | US | |

US-CL-CURRENT: 359/351

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Draw Desc | Image | | | | | | | | |

KWC

☐ 3. Document ID: US 6512631 B2

L6: Entry 3 of 4

File: USPT

Jan 28, 2003

PGPUB-DOCUMENT-NUMBER: 6512631 B2
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 6512631 B2

TITLE: Broadband deep ultraviolet/vacuum ultraviolet catadioptric imaging system

PUBLICATION-DATE: January 28, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|----------------------|-----------|-------|---------|---------|
| ARMSTRONG, J. JOSEPH | MILIPITAS | CA | US | |

US-CL-CURRENT: 359/351, 364, 365, 366, 385

WEST**Freeform Search****Database:**

US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Term:

catadioptric SAME lithograph\$6 SAME inspect\$4

Display:**Documents in Display Format:****Starting with Number****Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image**Search****Clear****Help****Logout****Interrupt****Main Menu****Show S Numbers****Edit S Numbers****Preferences****Cases****Search History****DATE:** Sunday, May 04, 2003 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

| | | | |
|------------|---|------|------------|
| <u>L15</u> | L1 & L9 | 10 | <u>L15</u> |
| <u>L14</u> | L2 & L9 | 5 | <u>L14</u> |
| <u>L13</u> | L3 & L9 | 7 | <u>L13</u> |
| <u>L12</u> | L8 & L5 | 0 | <u>L12</u> |
| <u>L11</u> | L9 & L6 | 0 | <u>L11</u> |
| <u>L10</u> | L9 & L4 | 0 | <u>L10</u> |
| <u>L9</u> | L5 & L7 | 91 | <u>L9</u> |
| <u>L8</u> | L1 & L2 & L3 | 3 | <u>L8</u> |
| <u>L7</u> | magnif\$7 SAME (detect\$4 or sens\$3) SAME inspect\$4 | 934 | <u>L7</u> |
| <u>L6</u> | catadioptric SAME lithograph\$6 SAME inspect\$4 | 4 | <u>L6</u> |
| <u>L5</u> | (semiconductor or wafer\$1) SAME inspect\$4 SAME (pixel\$1 or density or densities) | 1001 | <u>L5</u> |
| <u>L4</u> | catadioptric NEAR5 lens SAME (specimen or sample\$1 or object\$1) SAME inspect\$4 WITH microscop\$2 | 5 | <u>L4</u> |
| <u>L3</u> | object\$3 ADJ lens SAME detect\$3 SAME field NEAR5 view\$3 | 541 | <u>L3</u> |
| <u>L2</u> | detect\$3 SAME inspect\$4 SAME field NEAR5 view\$3 SAME (specimen or sample\$1 or object\$1) | 195 | <u>L2</u> |
| <u>L1</u> | microscop\$2 NEAR5 inspect\$4 SAME object\$3 ADJ lens | 197 | <u>L1</u> |

END OF SEARCH HISTORY

US-PAT-NO: 6512631

DOCUMENT-IDENTIFIER: US 6512631 B2

TITLE: Broad-band deep ultraviolet/vacuum ultraviolet catadioptric imaging system

| | | | | | | | | | |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
| Draw Desc | Image | | | | | | | | |

KWC

☐ 4. Document ID: GB 2357158 A GB 2357158 B

L6: Entry 4 of 4

File: DWPI

Jun 13, 2001

DERWENT-ACC-NO: 2002-149785

DERWENT-WEEK: 200281

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TITLE: Wafer defect inspection method, using catadioptric imaging system, involves forming multi-wavelength ultraviolet image of wafer, which is analyzed for detecting defects

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|-----------|----------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
| Draw Desc | Clip Img | Image | | | | | | | |

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| Terms | Documents |
|---|-----------|
| catadioptric SAME lithograph\$6 SAME inspect\$4 | 4 |

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 5 of 5 returned.**☐ 1. Document ID: US 20030076583 A1

L4: Entry 1 of 5

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030076583 A1

TITLE: Ultra-broadband UV microscope imaging system with wide range zoom capability

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|-----------|-------|---------|---------|
| Shafer, David R. | Fairfield | CT | US | |
| Chuang, Yung-Ho | Cupertino | CA | US | |
| Tsai, Bin-Ming B. | Saratoga | CA | US | |

US-CL-CURRENT: 359/357; 359/351

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|------|
| Draw Desc | Image | | | | | | | | | |

☐ 2. Document ID: US 6483638 B1

L4: Entry 2 of 5

File: USPT

Nov 19, 2002

US-PAT-NO: 6483638
DOCUMENT-IDENTIFIER: US 6483638 B1

TITLE: Ultra-broadband UV microscope imaging system with wide range zoom capability

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|------|
| Draw Desc | Image | | | | | | | | | |

☐ 3. Document ID: US 6362923 B1

L4: Entry 3 of 5

File: USPT

Mar 26, 2002

US-PAT-NO: 6362923
DOCUMENT-IDENTIFIER: US 6362923 B1

TITLE: Lens for microscopic inspection

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|------|
| Draw Desc | Image | | | | | | | | | |

☐ 4. Document ID: US 5999310 A

L4: Entry 4 of 5

File: USPT

Dec 7, 1999

US-PAT-NO: 5999310

DOCUMENT-IDENTIFIER: US 5999310 A

TITLE: Ultra-broadband UV microscope imaging system with wide range zoom capability

| | | | | | | | | | |
|------------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
| Draw. Desc | Image | | | | | | | | |

KWC

☐ 5. Document ID: GB 2357158 A GB 2357158 B

L4: Entry 5 of 5

File: DWPI

Jun 13, 2001

DERWENT-ACC-NO: 2002-149785

DERWENT-WEEK: 200281

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TITLE: Wafer defect inspection method, using catadioptric imaging system, involves forming multi-wavelength ultraviolet image of wafer, which is analyzed for detecting defects

| | | | | | | | | | |
|------------|----------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
| Draw. Desc | Clip Img | Image | | | | | | | |

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| Terms | Documents |
|--|-----------|
| catadioptric NEAR5 lens SAME (specimen or sample\$1 or object\$1) SAME inspect\$4 WITH microscop\$2 | 5 |

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WEST**Generate Collection****Print****Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: US 20020019003 A1

L8: Entry 1 of 3

File: PGPB

Feb 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020019003
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020019003 A1

TITLE: Method for the targeted application of reagents onto immobilized biological material

PUBLICATION-DATE: February 14, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------|-----------------|-------|---------|---------|
| Haas, Oskar A. | Kloster Neuburg | | AT | |
| Lorch, Thomas | Reilingen | | DE | |
| Plesch, Andreas | Schwetzingen | | DE | |

US-CL-CURRENT: 435/6; 382/129, 435/40.5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RWC |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|
| Draw Desc | Image | | | | | | | | | | |

☐ 2. Document ID: US 6548811 B1

L8: Entry 2 of 3

File: USPT

Apr 15, 2003

US-PAT-NO: 6548811
DOCUMENT-IDENTIFIER: US 6548811 B1

TITLE: Transmission electron microscope apparatus with equipment for inspecting defects in specimen and method of inspecting defects in specimen using transmission electron microscope

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RWC |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|
| Draw Desc | Image | | | | | | | | | | |

☐ 3. Document ID: US 5051585 A

L8: Entry 3 of 3

File: USPT

Sep 24, 1991

US-PAT-NO: 5051585
DOCUMENT-IDENTIFIER: US 5051585 A

TITLE: Apparatus and method of pattern detection based on a scanning transmission electron microscope